

Matrices

Name: _____

Date: _____

Order of Matrices.

$$1) \begin{bmatrix} 5\frac{1}{2} & \frac{1}{5} & -6 \\ \sqrt{3} & \frac{\sqrt{7}}{2} & \frac{9}{\sqrt{5}} \\ 4\sqrt{7} & 6\frac{1}{4} & \sqrt{2} \end{bmatrix} \begin{bmatrix} 7 & \sqrt{5} & 4 & 0 \\ -1 & 3 & 0 & -2 \\ \frac{3}{\sqrt{2}} & -8 & 8\sqrt{10} & 5 \end{bmatrix} \quad 2)$$

$$\begin{bmatrix} 2\frac{1}{2} \\ \sqrt{5} \\ -7 \\ 2\sqrt{2} \end{bmatrix} [5 \quad -3 \quad 0]$$

Order = _____

Order = _____

$$3) \begin{bmatrix} 6 & -4 & 0 & \sqrt{7} \\ -3 & 5\sqrt{3} & 1 & -2 \end{bmatrix} \begin{bmatrix} \frac{1}{\sqrt{7}} & 4 \\ 7\frac{1}{3} & -1 \\ \sqrt{3} & 2\frac{1}{2} \\ \frac{\sqrt{5}}{3} & -9 \end{bmatrix}$$

Order = _____

$$4) \begin{bmatrix} 8\sqrt{5} & -7 \\ \frac{1}{10} & \sqrt{13} \end{bmatrix} \begin{bmatrix} 9 & 3\sqrt{5} & -6 & \frac{\sqrt{11}}{4} \\ 0 & -3 & 2 & -5 \end{bmatrix}$$

Order = _____

$$5) \begin{bmatrix} -1 & \frac{\sqrt{3}}{7} & 4 \\ 3 & 10\sqrt{2} & -5 \\ 9 & 5\frac{1}{3} & -7 \\ 3\sqrt{10} & 5\frac{1}{4} & \frac{\sqrt{7}}{4} \end{bmatrix} \begin{bmatrix} 1 & -5 \\ 9 & -10 \\ \sqrt{7} & \sqrt{5} \end{bmatrix}$$

Order = _____

$$6) \begin{bmatrix} -7 & 5 \\ 0 & 2\frac{1}{2} \\ \frac{\sqrt{2}}{3} & -6 \\ \frac{3}{\sqrt{2}} & \sqrt{5} \end{bmatrix} \begin{bmatrix} 0 & -4 & 3 \\ \sqrt{3} & 7 & -6 \end{bmatrix}$$

Order = _____

$$7) \begin{bmatrix} 2\frac{1}{2} & \frac{\sqrt{2}}{3} \\ \frac{3}{\sqrt{2}} & 2\sqrt{2} \end{bmatrix} \begin{bmatrix} 8 & -\sqrt{3} & \frac{5}{\sqrt{3}} \\ -6 & 7\frac{1}{5} & 8\sqrt{5} \end{bmatrix}$$

Order = _____

$$8) \begin{bmatrix} -9 \\ \sqrt{5} \\ 0 \\ 2\frac{1}{2} \end{bmatrix} \begin{bmatrix} 4 & -5 & 2\sqrt{2} & \frac{1}{7} \end{bmatrix}$$

Order = _____

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$$1) \begin{bmatrix} 5\frac{1}{2} & \frac{1}{5} & -6 \\ \sqrt{3} & \frac{\sqrt{7}}{2} & \frac{9}{\sqrt{5}} \\ 4\sqrt{7} & 6\frac{1}{4} & \sqrt{2} \end{bmatrix} \begin{bmatrix} 7 & \sqrt{5} & 4 & 0 \\ -1 & 3 & 0 & -2 \\ \frac{3}{\sqrt{2}} & -8 & 8\sqrt{10} & 5 \end{bmatrix} \quad 2)$$

$$\begin{bmatrix} 2\frac{1}{2} \\ \sqrt{5} \\ -7 \\ 2\sqrt{2} \end{bmatrix} [5 \quad -3 \quad 0]$$

Order = 3x4

Order = 4x3

$$3) \begin{bmatrix} 6 & -4 & 0 & \sqrt{7} \\ -3 & 5\sqrt{3} & 1 & -2 \end{bmatrix} \begin{bmatrix} \frac{1}{\sqrt{7}} & 4 \\ 7\frac{1}{3} & -1 \\ \sqrt{3} & 2\frac{1}{2} \\ \frac{\sqrt{5}}{3} & -9 \end{bmatrix}$$

Order = 2x2

$$4) \begin{bmatrix} 8\sqrt{5} & -7 \\ \frac{1}{10} & \sqrt{13} \end{bmatrix} \begin{bmatrix} 9 & 3\sqrt{5} & -6 & \frac{\sqrt{11}}{4} \\ 0 & -3 & 2 & -5 \end{bmatrix}$$

Order = 2x4

$$5) \begin{bmatrix} -1 & \frac{\sqrt{3}}{7} & 4 \\ 3 & 10\sqrt{2} & -5 \\ 9 & 5\frac{1}{3} & -7 \\ 3\sqrt{10} & 5\frac{1}{4} & \frac{\sqrt{7}}{4} \end{bmatrix} \begin{bmatrix} 1 & -5 \\ 9 & -10 \\ \sqrt{7} & \sqrt{5} \end{bmatrix}$$

Order = 4x2

$$6) \begin{bmatrix} -7 & 5 \\ 0 & 2\frac{1}{2} \\ \frac{\sqrt{2}}{3} & -6 \\ \frac{3}{\sqrt{2}} & \sqrt{5} \end{bmatrix} \begin{bmatrix} 0 & -4 & 3 \\ \sqrt{3} & 7 & -6 \end{bmatrix}$$

Order = 4x3

$$7) \begin{bmatrix} 2\frac{1}{2} & \frac{\sqrt{2}}{3} \\ \frac{3}{\sqrt{2}} & 2\sqrt{2} \end{bmatrix} \begin{bmatrix} 8 & -\sqrt{3} & \frac{5}{\sqrt{3}} \\ -6 & 7\frac{1}{5} & 8\sqrt{5} \end{bmatrix}$$

Order = 2x3

$$8) \begin{bmatrix} -9 \\ \sqrt{5} \\ 0 \\ 2\frac{1}{2} \end{bmatrix} \begin{bmatrix} 4 & -5 & 2\sqrt{2} & \frac{1}{7} \end{bmatrix}$$

Order = 4x4